

PATENT ABSTRACTS OF JAPAN

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(21)Application number : 03-069335 (71)Applicant : SONY CORP
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TATSUJI

(54) **X-Y ADDRESS TYPE SOLID-STATE IMAGE PICKUP DEVICE**

(57)Abstract:

PURPOSE: To attain the electronic shutter operation without a time lag for all picture elements and to eliminate the need for light shield of a capacitor section in the X-Y address solid-state image pickup device.

CONSTITUTION: Each of a photosensor section 10 in the unit of picture elements is made up of a photoelectric conversion element 11 storing a signal charge in response to an incident light a 1st switch element 13 resetting the storage state of the photoelectric conversion element 11 a charge storage element 14 a 2nd switch element 15 transferring the signal charge stored in the photoelectric conversion element 11 to the charge storage element 14 and a 3rd switch element 12 reading a charged charge of the charge storage element 14 and a stack structure capacitor is used for the charge storage element 14 and the storage output of the capacitor is read as X and Y axes outputs.